4.0 AOC 5 - OLD CHEMICAL DEMONSTRATION AREA

4.1 LOCATION OF STUDY AREA

The Old Chemical Demonstration Area comprises approximately 64 acres within the Cantonment Area at the Fort McClellan, Alabama Army Installation (Fig. 1). The study area boundary was devised by adding a 150-ft buffer outside of the Old Chemical Demonstration Area site boundary.

4.2 AERIAL PHOTOGRAPH QUALITY ISSUES

A few photograph quality issues were encountered during photograph interpretation. They were corrected as follows:

- **X Quality** In many areas of the photographs, the dynamic range of brightness values was insufficient to distinguish land cover classes. Due to extreme brightness (almost white), ground cover such as grass, bare soil, trails, and roads could not be differentiated. Where appropriate, problem areas of the photographs were subset and image enhancement techniques were applied. Simple adjustments to the brightness and contrast were conducted, or in more severe cases, a histogram equalization in the range of the lookup table was performed on the specific area where interpretation was difficult.
- **X** Rectification Although second- and third-order transformations were used in the rectification of the digital photographs, all of the photograph rectification within the Old Chemical Demonstration Area contained too much error to accurately digitize land use/cover polygons. The primary factor contributing to the error was terrain distortion. Factors contributing to the error included: (1) insufficient ground control points (GCPs) due to pronounced changes in land cover between years, (2) photographic distortion (location of the site in relation to the center of the photograph and the angle of the camera/aircraft when the photograph was acquired), and (3) terrain distortion. To improve the photographic registration of the study area, the Old Chemical Demonstration Area was subset from the rectified digital photographs in question and the newly-created image files were rectified separately. In many cases, the subsets had to be rubbersheeted to allow for accurate digitization of land use and land cover vectors.

4.3 FINDINGS

Complete photographic coverage of the study area was available for eight years of photographic coverage from 1937 to 1994. A total of 339 anomalies were identified in the year-by-year land cover analysis. All anomalies were inspected to ascertain the cause of each anomaly (Fig 2). All anomalies were resolved except for two groups of unidentified objects. Anomalies potentially associated with waste disposal or chemical training activities were determined to be of potential concern and should be assessed by the USAESCH. During the final quality assurance review of the land use/cover anomalies, nine anomalies were determined to be caused by photographic interpretation error. These anomalies are identified as "QA" in Table 1 and will not be discussed further. Of the anomalies identified, 257 were caused by new roads, pre-existing and former roads and trails, trails connecting roads or leading to an excavation area, pre-existing and former excavation areas, buildings, parking lots, landscaping, pre-existing and former groups of unidentified objects, cleared areas associated

with construction of roads or road shoulders, and pre-existing and former cleared areas. The remaining 73 anomalies are of potential concern and were the result of trails, groups of unidentified objects, excavation, and the clearing of trees, scrub, and/or other groundcover.

1937. Five anomalous areas were identified during a visual inspection of the photographs (see Table 1 and Fig. 3a). One anomaly was the result of a building. The remaining four anomalies are of potential concern and were the result of cleared areas (3 anomalies) and a trail (1 anomaly).

1937 to 1940. Eight anomalies were identified during the land cover change analysis for the years 1937 and 1940 (see Table 1 and Fig. 3b). Three anomalies were the result of new and pre-existing roads and a pre-existing trail. The remaining five anomalies are of potential concern and were the result of trails (5 anomalies).

1940 to 1944. Forty-two anomalies were identified during the land cover analysis for the years 1940 and 1944 (see Table 1 and Fig. 3c). Fifteen of the anomalies were the result of new and pre-existing roads, pre-existing and former trails, former cleared areas, and cleared areas associated with road construction. The remaining twenty-seven anomalies are of potential of concern and were the result of new trails (4 anomalies), areas of trails and clearings (6 anomalies), the clearing of trees (8 anomalies) and other cleared areas (9 anomalies).

1944 to 1954. Seventy-two anomalies were identified during the land cover change analysis for the years 1944 and 1954 (see Table 1 and Fig. 3d). Fifty-eight of the anomalies were the result of new roads, former and pre-existing trails, trails leading to an excavation site, buildings, pre-existing cleared areas, cleared areas associated with road construction or road shoulders, and former areas of trails and clearings. The remaining fourteen anomalies are of potential concern and were the result of trails (2 anomalies), excavation (4 anomalies), groups of unidentified objects (2 anomalies), the clearing of trees (5 anomalies), and the clearing of scrub (1 anomaly).

1954 to 1961. Fifty-nine anomalies were identified during the land cover change analysis for the years 1954 and 1961 (see Table 1 and Fig. 3e). Forty-three of the anomalies were the result of new, pre-existing and former roads, pre-existing and former trails, trails connecting roads or leading to an excavation site, former groups of unidentified objects, new and former buildings, pre-existing and former cleared areas, and pre-existing excavation. The remaining sixteen anomalies are of potential concern and were the result of trails (5 anomalies), the clearing of scrub (4 anomalies), and excavation (7 anomalies).

1961 to 1969. Twenty-four anomalies were identified during the land cover change analysis for the years 1961 and 1969 (see Table 1 and Fig. 3f). Eighteen of the anomalies were the result of pre-existing and former roads, trails, excavation, and cleared areas. The remaining six anomalies are of potential concern and were the result of trails (2 anomalies) and excavation (4 anomalies).

1969 to 1982. Eighty-four anomalies were identified during the land cover change analysis for the years 1969 and 1982 (see Table 1 and Fig. 3g). All of the anomalies were the result of new, pre-existing, and former roads; former trails; tree and scrub clearing associated with the construction of a community center; landscaping; parking lots; industrial and recreation buildings; and former and pre-existing excavations. There are no anomalies of potential concern.

Figure 1

1982 to 1994. Thirty-six anomalies were identified during the land cover change analysis for the years 1982 and 1994 (see Table 1 and Fig. 3h). Thirty-five anomalies were the result of new, pre-existing, and former roads; new, pre-existing and former landscaping; new and pre-existing parking lots; pre-existing buildings; and former and pre-existing excavation. The remaining one anomaly is of potential concern and was the result of a cleared area (1 anomaly).

Table 1. The Old Chemical Demonstration Area - Anomaly Resolution

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------------|--------------|-------------------|---|---------------------------------------|
| Yes | 1 | 1937 | Cleared area | 6, 14 |
| Yes | 2 | 1937 | Cleared area | None |
| | 3 | 1937 | Road | 8, 17, 31, 32, 72, 146, 190, 214, 304 |
| Yes | 4 | 1937 | Trail | 9, 30, 76, 77 |
| Yes | 5 | 1937 | Cleared area | None |
| Yes | 6 | 1940 | Trail (cuts through former cleared area visible 1937) | 1, 14, 57, 58 |
| Yes | 7 | 1940 | Trail | 22, 27 |
| | 8 | 1940 | Pre-existing road (first visible 1937) | 3, 17, 31, 32, 72, 146, 190, 214, 304 |
| | 9 | 1940 | Pre-existing trail (first visible 1937) | 4, 30, 76, 77 |
| Yes | 10 | 1940 | Trail | 40 |
| Yes | 11 | 1940 | Trail | 43 |
| Yes | 12 | 1940 | Trail | 41 |
| | 13 | 1940 | Road | 44 |
| | 14 | 1944 | Pre-existing trail (first visible 1940) | 1, 6, 57, 58 |
| Yes | 15 | 1944 | Trail | 59, 60, 140, 190, 214, 304 |
| Yes | 16 | 1944 | Cleared area | 65 |
| | 17 | 1944 | Pre-existing road (first visible 1937) | 3, 8, 31, 32, 72, 146, 190, 214, 304 |
| | 18 | 1944 | Cleared area (associated with road construction road) | 71 |
| | 19 | 1944 | Cleared area (associated with widening/construction of road - first visible 1937) | 73 |
| Yes | 20 | 1944 | Cleared area | 70 |
| Yes | 21 | 1944 | Cleared area | 71 |
| Yes | 22 | 1944 | Cleared area (former trail - first visible 1940) | 7 |
| | 23 | 1944 | Road | 72, 146, 190, 214, 304 |

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------------|-----------|-------------------|--|---|
| | 24 | 1944 | Road | 72, 146, 190, 214, 304 |
| | 25 | 1944 | Road | 72, 146, 190, 214, 304 |
| Yes | 26 | 1944 | Cleared area | 74 |
| Yes | 27 | 1944 | Cleared area (former trail - first visible 1940) | 7, 73, 74 |
| Yes | 28 | 1944 | Cleared area | 73 |
| Yes | 29 | 1944 | Cleared area | 73-75 |
| | 30 | 1944 | Pre-existing trail (first visible 1937) | 4, 9, 76, 77 |
| | 31 | 1944 | Road (widened) | 3, 8, 17, 32, 72,146, 190, 214, 304 |
| | 32 | 1944 | Pre-existing road (first visible 1937); incorrectly coded as grass | 3, 8, 17, 31, 72, 146, 190, 214, 304 |
| Yes | 33 | 1944 | Trail | 62, 64, 140, 190, 214, 304 |
| Yes | 34 | 1944 | Trees cleared | None |
| Yes | 35 | 1944 | Trees cleared | None |
| Yes | 36 | 1944 | Area of trails and clearings | 126 |
| Yes | 37 | 1944 | Area of trails and clearings | 127 |
| Yes | 38 | 1944 | Area of trails and clearings | 84, 127 |
| Yes | 39 | 1944 | Area of trails and clearings | 83 |
| | 40 | 1944 | Former trail (first visible 1940) | 10 |
| | 41 | 1944 | Former trail (first visible 1940); incorrectly coded as pre-existing trail | 12 |
| | 42 | 1944 | QA | |
| | 43 | 1944 | Former trail (first visible 1940) | 11 |
| | 44 | 1944 | Former road (first visible 1940) | 13 |
| | 45 | 1944 | Cleared area (associated with road construction) | 93, 167, 202 |
| Yes | 46 | 1944 | Cleared area | 94, 166, 168, 203, 295 |
| Yes | 47 | 1944 | Trees cleared | None |
| Yes | 48 | 1944 | Trail | 108, 109, 170 |
| Yes | 49 | 1944 | Trail | 111, 112, 114, 115, 118, 182 |
| Yes | 50 | 1944 | Trees cleared | None |
| Yes | 51 | 1944 | Trees cleared | None |

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------------|-----------|-------------------|---|---|
| Yes | 52 | 1944 | Trees cleared | None |
| Yes | 53 | 1944 | Trees cleared | 103, 158, 163, 172, 206, 274, 281, 332 |
| Yes | 54 | 1944 | Trees cleared | None |
| Yes | 55 | 1944 | Area of trails and clearings | None |
| Yes | 56 | 1944 | Area of trails and clearings | 83, 84, 87, 124, 125, 127 |
| | 57 | 1954 | Former trail (first visible 1940) | 6, 14 |
| | 58 | 1954 | Former trail (first visible 1940) | 6, 14 |
| | 59 | 1954 | Former trail (first visible 1944) | 15 |
| | 60 | 1954 | Road (trail in 1944) | 15, 140, 190, 214, 304 |
| | 61 | 1954 | Road | 140, 190, 214, 304 |
| | 62 | 1954 | Former trail (first visible 1944) | 33 |
| Yes | 63 | 1954 | Vegetation cleared (scrub partially cleared away) | None |
| | 64 | 1954 | Road (trail in 1944) | 33, 140, 190, 214, 304 |
| | 65 | 1954 | Former cleared area (first visible 1944) | 16 |
| | 66 | 1954 | Road | 140, 190, 214, 304 |
| | 67 | 1954 | Road | 140, 190, 214, 304 |
| | 68 | 1954 | Road | 140, 143, 190, 214, 304 |
| | 69 | 1954 | Trail (extends across area of pre- existing trails and clearings); connects two roads | 131, 191 |
| | 70 | 1954 | Former cleared area (first visible 1944) | 20 |
| | 71 | 1954 | Former cleared area (first visible 1944) | 18, 21 |
| | 72 | 1954 | Pre-existing road (first visible 1937) | 3, 8, 17, 23-25, 31, 32, 146, 190, 214, 304 |
| | 73 | 1954 | Former cleared area (first visible 1944) | 19, 27-29 |
| | 74 | 1954 | Former cleared area (first visible 1944) | 26, 27, 29 |
| | 75 | 1954 | Former cleared area (first visible 1944) | 29 |
| | 76 | 1954 | Former trail (first visible 1937) | 4, 9, 30 |
| | 77 | 1954 | Former trail (first visible 1937) | 4, 9, 30 |
| | 78 | 1954 | Cleared area (associated with road shoulder) | 142 |

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------------|-----------|-------------------|--|--|
| | 79 | 1954 | Cleared area (associated with road shoulder) | 141, 147 |
| | 80 | 1954 | Cleared area (associated with road shoulder) | 147 |
| | 81 | 1954 | QA | |
| | 82 | 1954 | Cleared area (associated with road shoulder) | 148 |
| | 83 | 1954 | Former area of trails and clearings | 39, 56 |
| Yes | 84 | 1954 | Trail (extends across area of pre- existing trails and clearings) | 38, 56, 138, 139, 152, 153 |
| Yes | 85 | 1954 | Trail | 152, 153 |
| Yes | 86 | 1954 | Trees cleared | None |
| | 87 | 1954 | Former area of trails and clearings | 56 |
| | 88 | 1954 | Building (incorrectly coded as unidentified object) | 156 |
| | 89 | 1954 | Building | 155 |
| | 90 | 1954 | Cleared area (associated with road shoulder) | 147 |
| | 91 | 1954 | Road | 146, 190, 214, 294, 304 |
| | 92 | 1954 | Road | 146, 190, 214, 304 |
| | 93 | 1954 | Pre-existing cleared area (first visible 1944) | 45, 167, 202 |
| | 94 | 1954 | Pre-existing cleared area (first visible 1944) | 46, 166, 168, 203, 295, 296, 297 |
| | 95 | 1954 | Cleared area (associated with road construction) | 169 |
| Yes | 96 | 1954 | Trees cleared | None |
| Yes | 97 | 1954 | Unidentified objects (grouped) | 154 |
| | 98 | 1954 | Road | 146, 176, 190, 214, 256, 258, 259, 261, 267, 304, 320, 330 |
| | 99 | 1954 | Road (incorrectly coded as a cleared area) | 157 |
| Yes | 100 | 1954 | Trees cleared | 159, 206, 269 |
| | 101 | 1954 | Road (incorrectly coded as a cleared area) | 161, 162, 206 |
| Yes | 102 | 1954 | Excavation | 163, 206, 269, 272-274, 326, 331-333, 338 |
| Yes | 103 | 1954 | Excavation | 53, 163, 158, 206, 274, 275, 332, 333 |
| | 104 | 1954 | Trail (leads to excavation area) | 53, 183 |
| | 105 | 1954 | Trail (leads to excavation area) | 184, 185, 187, 188 |

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------------|-----------|-------------------|---|---|
| | 106 | 1954 | Road | 146, 190, 279, 280, 282, 284, 286, 288, 289, 292, 337 |
| | 107 | 1954 | Trail (leads to excavation area) | 165 |
| | 108 | 1954 | Pre-existing trail (first visible 1944) | 48, 170 |
| | 109 | 1954 | Road (also part of former trail - first visible 1944) | 48, 146, 190, 280 |
| | 110 | 1954 | Trail (leads to excavation area) | 173, 174 |
| | 111 | 1954 | Former trail (first visible 1944) | 49 |
| | 112 | 1954 | Former trail (first visible 1944) | 49 |
| Yes | 113 | 1954 | Excavation | 163, 205, 206, 275 |
| Yes | 114 | 1954 | Excavation (former trail - first visible 1944) | 49, 163, 206, 275 |
| | 115 | 1954 | Former trail (first visible 1944) | 49 |
| | 116 | 1954 | Road | 146, 190, 204, 279, 280, 337 |
| | 117 | 1954 | Road | 181, 212, 276, 339 |
| | 118 | 1954 | Pre-existing trail (first visible 1944) | 49, 182 |
| Yes | 119 | 1954 | Trees cleared | None |
| Yes | 120 | 1954 | Unidentified objects (grouped) | 178 |
| | 121 | 1954 | Trees cleared (associated with construction of buildings) | None |
| | 122 | 1954 | Building | 180 |
| | 123 | 1954 | Building | 179 |
| | 124 | 1954 | Former area of trails and clearings | 56, 145 |
| | 125 | 1954 | Former area of trails and clearings | 56 |
| | 126 | 1954 | Former area of trails and clearings | 36 |
| | 127 | 1954 | Former area of trails and clearings | 37, 38, 56 |
| Yes | 128 | 1954 | Trees cleared | None |
| | 129 | 1954 | Road | 140, 190, 214, 304 |
| | 130 | 1961 | Trail (connects two roads) | 191 |
| | 131 | 1961 | Pre-existing trail (first visible 1954) | 69, 191 |
| Yes | 132 | 1961 | Trail | 193, 216, 217 |
| Yes | 133 | 1961 | Trail | 192, 195 |

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------------|-----------|-------------------|--|---|
| Yes | 134 | 1961 | Trail | 196, 197, 218 |
| Yes | 135 | 1961 | Scrub cleared | None |
| Yes | 136 | 1961 | Scrub cleared | None |
| Yes | 137 | 1961 | Scrub cleared | None |
| | 138 | 1961 | Former trail (first visible 1954) | 84 |
| | 139 | 1961 | Former trail (first visible 1954) | 84 |
| | 140 | 1961 | Pre-existing road (partially visible as trail 1944; first visible as road 1954) | 15, 33, 56, 60, 61, 64, 66-68, 129, 190, 214, 304 |
| | 141 | 1961 | Former cleared area (first visible 1954) | 56, 79 |
| | 142 | 1961 | Former cleared area (first visible 1954) | 78 |
| | 143 | 1961 | Former road (first visible 1954) | 68 |
| | 144 | 1961 | Road | 190, 214, 304 |
| Yes | 145 | 1961 | Scrub cleared | 124 |
| | 146 | 1961 | Pre-existing road (first visible 1937) | 3, 8, 17, 23-25, 31, 32, 72, 91, 92, 98, 106, 109, 116, 190, 204, 214, 267, 279, 280, 282, 284, 286, 288, 289, 292, 294, 296, 298, 300, 304, 330, 337 |
| | 147 | 1961 | Former cleared area (first visible 1954) | 79, 80, 90 |
| | 148 | 1961 | Former cleared area (first visible 1954) | 82 |
| Yes | 149 | 1961 | Trail | 199, 200 |
| Yes | 150 | 1961 | Trail | 198, 199 |
| | 151 | 1961 | QA | |
| | 152 | 1961 | Former trail (first visible 1954) | 84, 85 |
| | 153 | 1961 | Former trail (first visible 1954) | 84, 85 |
| | 154 | 1961 | Former unidentified objects (first visible 1954); incorrectly coded as forest instead of grass | 97 |
| | 155 | 1961 | Former building (first visible 1954) | 89 |
| | 156 | 1961 | Former building (first visible 1954) | 88 |
| | 157 | 1961 | Pre-existing road (first visible 1954); incorrectly coded as forest | 99 |

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------------|-----------|-------------------|--|--|
| | 158 | 1961 | Former excavation (first visible 1954) | 53, 103 |
| Yes | 159 | 1961 | Excavation | 100, 206, 269 |
| Yes | 160 | 1961 | Excavation | 206, 272, 324, 326, 331 |
| Yes | 161 | 1961 | Excavation | 101, 206, 272, 324, 325 |
| Yes | 162 | 1961 | Excavation | 101, 206, 272, 324, 325 |
| | 163 | 1961 | Pre-existing excavation (first visible 1954) | 53, 102, 103, 113, 114, 205, 206, 269, 273-275, 326, 331-333, 338, 339 |
| | 164 | 1961 | Road | 190, 280 |
| | 165 | 1961 | Former trail (first visible 1954) | 107 |
| | 166 | 1961 | Former cleared area (first visible 1944) | 46, 94 |
| | 167 | 1961 | Pre-existing cleared area (first visible 1944) | 45, 93, 202 |
| | 168 | 1961 | Pre-existing cleared area (first visible 1944) | 46, 94, 203, 295 |
| | 169 | 1961 | Former cleared area (first visible 1954) | 95 |
| | 170 | 1961 | Former trail (first visible 1944) | 48, 108 |
| | 171 | 1961 | Trail (leads to excavation area) | 213 |
| Yes | 172 | 1961 | Excavation | 53, 206, 281 |
| | 173 | 1961 | Former trail (first visible 1954) | 110, 281 |
| Yes | 174 | 1961 | Excavation | 110 |
| Yes | 175 | 1961 | Excavation | None |
| | 176 | 1961 | Former road (first visible 1954) | 98, 190, 214, 256, 259, 261, 267, 304, 320 |
| | 177 | 1961 | Road | 190, 214, 267, 304 |
| | 178 | 1961 | Former unidentified objects (first visible 1954) | 120 |
| | 179 | 1961 | Former building (first visible 1954) | 123 |
| | 180 | 1961 | Former building (first visible 1954) | 122 |
| | 181 | 1961 | Pre-existing road (first visible 1954) | 117, 212, 276, 339 |
| | 182 | 1961 | Former trail (first visible 1944) | 49, 118 |
| | 183 | 1961 | Former trail (first visible 1954) | 104 |
| | 184 | 1961 | Former trail (first visible 1954) | 105 |

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------------|-----------|-------------------|--|---|
| | 185 | 1961 | Trail (leads to excavation area; also part of former trail - first visible 1954) | 105, 213 |
| | 186 | 1961 | Trail (leads to excavation area) | 213 |
| | 187 | 1961 | Former trail (first visible 1954) | 105 |
| | 188 | 1961 | Former trail (first visible 1954) | 105 |
| | 189 | 1961 | Trail (leads to excavation area) | 208, 213 |
| | 190 | 1969 | Pre-existing road (partially visible 1937, partially visible 1954, partially visible 1961) | 3, 8, 15, 17, 23-25, 31-33, 60, 61, 64, 66-68, 72, 91, 92, 98, 106, 109, 116, 129, 140, 144, 146, 164, 176, 177, 204, 214, 256, 259, 261, 267, 279, 280, 282, 284, 286, 288, 289, 292, 294, 298, 300, 304, 320, 337 |
| | 191 | 1969 | Former trail (first visible 1961) | 69, 130, 131 |
| | 192 | 1969 | Former trail (first visible 1961) | 133 |
| | 193 | 1969 | Pre-existing trail (first visible 1961) | 132, 216, 217 |
| Yes | 194 | 1969 | Trail | 217, 218 |
| | 195 | 1969 | Former trail (first visible 1961) | 133 |
| | 196 | 1969 | Pre-existing trail (first visible 1961) | 134, 218 |
| | 197 | 1969 | Former trail (first visible 1961) | 134 |
| | 198 | 1969 | Former trail (first visible 1961) | 150 |
| | 199 | 1969 | Former trail (first visible 1961) | 149, 150 |
| | 200 | 1969 | Former trail (first visible 1961) | 149 |
| Yes | 201 | 1969 | Trail | 218-220, 222, 240, 245, 248, 249 |
| | 202 | 1969 | Former cleared area (first visible 1944) | 45, 93, 167 |
| | 203 | 1969 | Pre-existing cleared area (first visible 1944) | 46, 94,168, 295 |
| | 204 | 1969 | Former road (first visible 1954) | 116, 146, 190 |
| | 205 | 1969 | Former excavation (first visible 1954) | 113, 163 |
| | 206 | 1969 | Pre-existing excavation (first visible 1954) | 53, 100-103, 113, 114, 159- 163, 172, 269, 272-275, 278, 281, 324-326, 331-333, 338, 339 |
| Yes | 207 | 1969 | Excavation | 272, 324 |

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------------|-----------|-------------------|--|--|
| Yes | 208 | 1969 | Excavation | 189, 272, 324 |
| Yes | 209 | 1969 | Excavation | 272, 324 |
| Yes | 210 | 1969 | Excavation | 272, 324 |
| Yes | 211 | 1969 | Excavation | 273, 338 |
| | 212 | 1969 | Pre-existing road (first visible 1954) | 117, 181, 276, 339 |
| | 213 | 1969 | Former trail (first visible 1961) | 171, 185, 186, 189 |
| | 214 | 1982 | Pre-existing road (partially visible 1937, partially visible 1954, partially visible 1961) | 3, 8, 15, 17, 23-25, 31-33, 60, 61, 64, 66-68, 72, 91, 92, 98, 129, 140, 144, 146, 176, 177, 190, 304 |
| | 215 | 1982 | QA | |
| | 216 | 1982 | Former trail (first visible 1961) | 132, 193 |
| | 217 | 1982 | Former trail (partially visible 1961, partially visible 1969) | 132, 193, 194 |
| | 218 | 1982 | Former trail (first visible 1969) | 134, 194, 196, 201 |
| | 219 | 1982 | Former trail (first visible 1969) | 201 |
| | 220 | 1982 | Road (intersects former trail - first visible 1969) | 201, 304 |
| | 221 | 1982 | Road | 304 |
| | 222 | 1982 | Road (intersects former trail - first visible 1969) | 201, 304 |
| | 223 | 1982 | Road | 304 |
| | 224 | 1982 | Road | 304 |
| | 225 | 1982 | Landscaping | None |
| | 226 | 1982 | QA | |
| | 227 | 1982 | Scrub cleared (associated with construction of community center) | None |
| | 228 | 1982 | Scrub cleared (associated with construction of community center) | None |
| | 229 | 1982 | Road | 304 |
| | 230 | 1982 | Landscaping | None |
| | 231 | 1982 | Landscaping | 307 |
| | 232 | 1982 | Landscaping | 307 |
| | 233 | 1982 | Road | 304 |
| | 234 | 1982 | Road | 304 |

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------------|-----------|-------------------|--|--------------------------------|
| | 235 | 1982 | Landscaping | 306, 307 |
| | 236 | 1982 | Landscaping | 307 |
| | 237 | 1982 | Road | 304 |
| | 238 | 1982 | Road | 304 |
| | 239 | 1982 | Road | 304 |
| | 240 | 1982 | Former road (first visible 1969) | 201 |
| | 241 | 1982 | QA | |
| | 242 | 1982 | Landscaping (community center) | 308 |
| | 243 | 1982 | Landscaping (community center) | 308 |
| | 244 | 1982 | Parking lot (community center) | 311 |
| | 245 | 1982 | Parking lot (community center) | 201, 311 |
| | 246 | 1982 | Parking lot (community center) | 311 |
| | 247 | 1982 | Landscaping (community center) | 308 |
| | 248 | 1982 | Landscaping (community center) | 201, 308 |
| | 249 | 1982 | Former trail (first visible 1969) | 201 |
| | 250 | 1982 | Road | 304 |
| | 251 | 1982 | Landscaping (community center) | 313 |
| | 252 | 1982 | Landscaping (community center) | 314 |
| | 253 | 1982 | Road | 304, 322, 323 |
| | 254 | 1982 | Landscaping (community center) | 315 |
| | 255 | 1982 | Landscaping (community center) | 315, 316 |
| | 256 | 1982 | Landscaping (community center; former road - first visible 1954) | 98, 176, 190, 316 |
| | 257 | 1982 | Landscaping (community center) | 316 |
| | 258 | 1982 | Landscaping (community center; former road - first visible 1954; incorrectly goded as road) | 98 |
| | 259 | 1982 | incorrectly coded as road) Landscaping (community center; former road - first visible 1954) | 98, 176, 190, 316 |
| | 260 | 1982 | Landscaping (community center) | 316 |
| | 261 | 1982 | Former road (first visible 1954) | 98, 176, 190 |
| | 262 | 1982 | Recreational building (community center) | 310 |

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------|-----------|-------------------|--|---|
| | 263 | 1982 | Recreational building (community center) | 309 |
| | 264 | 1982 | Landscaping (community center) | 308 |
| | 265 | 1982 | Trees cleared (associated with construction of community center) | None |
| | 266 | 1982 | Industrial building | 321 |
| | 267 | 1982 | Pre-existing road (partially first visible 1954) | 98, 146, 176, 177, 190, 304, 320, 330 |
| | 268 | 1982 | Road | 304, 318, 320, 327 |
| | 269 | 1982 | Former excavation (first visible 1954) | 100, 102, 159, 163, 206 |
| | 270 | 1982 | QA | |
| | 271 | 1982 | QA | |
| | 272 | 1982 | Pre-existing excavation (first visible 1961) | 102, 160, 161, 162, 206, 207, 208, 209, 210, 324, 325 |
| | 273 | 1982 | Pre-existing excavation (partially visible 1954, partially visible 1969) | 102, 163, 206, 211, 338 |
| | 274 | 1982 | Pre-existing excavation (first visible 1954) | 53, 102, 103, 163, 206, 326, 331-333 |
| | 275 | 1982 | Former excavation (first visible 1954) | 103, 113, 114, 163, 206 |
| | 276 | 1982 | Pre-existing road (first visible 1954) | 117, 181, 212, 304, 339 |
| | 277 | 1982 | Road | 304, 339 |
| | 278 | 1982 | Road | 206, 337 |
| | 279 | 1982 | Pre-existing road (first visible 1954) | 116, 146, 190, 337 |
| | 280 | 1982 | Former road (first visible 1954) | 106, 116, 109, 146, 190 |
| | 281 | 1982 | Former excavation (first visible 1961) | 53, 172, 173, 206 |
| | 282 | 1982 | Former road (first visible 1954) | 106, 146, 190 |
| | 283 | 1982 | Road | 334, 339 |
| | 284 | 1982 | Road (intersects former road - first visible 1954) | 106, 146, 190, 339 |
| | 285 | 1982 | Road | 334, 339 |
| | 286 | 1982 | Road (intersects former road - first visible 1954) | 106, 146, 190, 339 |
| | 287 | 1982 | Road | 339 |
| | 288 | 1982 | Former road (first visible 1954) | 106, 146, 190 |
| | 289 | 1982 | Former road (first visible 1954) | 106, 146, 190 |

| Of Potential Concern? | Anomaly # | Year of Change | Discussion | Related Anomalies ¹ |
|-----------------------------|-----------|-------------------|--|---|
| | 290 | 1982 | Trees cleared (associated with parking lot construction) | None |
| | 291 | 1982 | Parking lot | 335 |
| | 292 | 1982 | Parking lot (intersects former road - first visible 1954) | 106, 146, 190, 335 |
| | 293 | 1982 | Parking lot | 335 |
| | 294 | 1982 | Former road (first visible 1954) | 91, 146, 190 |
| | 295 | 1982 | Former cleared area (first visible 1944) | 46, 94, 168, 203 |
| | 296 | 1982 | Road | 94, 146, 304 |
| | 297 | 1982 | Landscaping | 94, 336 |
| | 298 | 1982 | Landscaping | 146, 190, 336 |
| | 299 | 1982 | Landscaping | 336 |
| | 300 | 1982 | Landscaping | 146, 190, 336 |
| | 301 | 1982 | Landscaping | 336 |
| | 302 | 1982 | Road | 304 |
| | 303 | 1982 | QA | |
| | 304 | 1994 | Pre-existing road (partially visible 1937, partially visible 1954) | 3, 8, 15, 17, 23-25, 31-33, 60, 61, 64, 66-68, 72, 91, 92, 98, 129, 140, 144, 146, 176, 177, 190, 214, 220-224, 229, 233, 234, 237-239, 250, 253, 267, 268, 276, 277, 296, 302 |
| Yes | 305 | 1994 | Cleared area | None |
| | 306 | 1994 | Former landscaping (first visible 1982) | 235 |
| | 307 | 1994 | Pre-existing landscaping (first visible 1982) | 231, 232, 235, 236 |
| | 308 | 1994 | Pre-existing landscaping (first visible 1982) | 242, 243, 247, 248, 264 |
| | 309 | 1994 | Pre-existing recreational building (first visible 1982) | 263 |
| | 310 | 1994 | Pre-existing recreational building (first visible 1982) | 262 |
| | 311 | 1994 | Pre-existing parking lot (first visible 1982) | 244-246 |
| | 312 | 1994 | Landscaping (community center) | None |
| | 313 | 1994 | Pre-existing landscaping (first visible 1982) | 251 |
| | 314 | 1994 | Road | 252 |

| Of Potential Concern? | Anomaly Year of Change | | Discussion | Related Anomalies ¹ |
|-----------------------|------------------------|------|---|--|
| | 315 | 1994 | Road | 254, 255 |
| | 316 | 1994 | Pre-existing landscaping (first visible 1982) | 255-257, 259, 260 |
| | 317 | 1994 | Parking lot (incorrectly coded as road) | None |
| | 318 | 1994 | Parking lot (former road - first visible 1982) | 268 |
| | 319 | 1994 | Parking lot (incorrectly coded as road) | None |
| | 320 | 1994 | Former road (first visible 1954) | 98, 176, 190, 267, 268 |
| | 321 | 1994 | Pre-existing industrial building (first visible 1982) | 266 |
| | 322 | 1994 | Former road (first visible 1982) | 253 |
| | 323 | 1994 | Former road (first visible 1982) | 253 |
| | 324 | 1994 | Former excavation (first visible 1961) | 160-162, 206-210, 272 |
| | 325 | 1994 | Former excavation (first visible 1961) | 160, 161, 206, 272 |
| | 326 | 1994 | Former excavation (first visible 1954) | 102, 160, 163, 206, 274 |
| | 327 | 1994 | Former road (first visible 1982) | 268 |
| | 328 | 1994 | Road | None |
| | 329 | 1994 | Landscaping (community center) | None |
| | 330 | 1994 | Pre-existing road (first visible 1954) | 98, 146, 190, 267 |
| | 331 | 1994 | Former excavation (first visible 1954) | 102, 160, 163, 206, 274 |
| | 332 | 1994 | Pre-existing excavation (first visible 1954) | 53, 102, 103, 163, 206, 274 |
| | 333 | 1994 | Former excavation (first visible 1954) | 102, 103, 163, 206, 274 |
| | 334 | 1994 | Former road (first visible 1982) | 283, 285 |
| | 335 | 1994 | Pre-existing parking lot (first visible 1982) | 291-293 |
| | 336 | 1994 | Pre-existing landscaping (first visible 1982) | 297-301 |
| | 337 | 1994 | Pre-existing road (first visible 1954) | 106, 116, 146, 190, 278, 279 |
| | 338 | 1994 | Former excavation (first visible 1954) | 102, 163, 206, 211, 273 |
| | 339 | 1994 | Pre-existing road (first visible 1954) | 117, 163, 181, 206, 212, 276, 277, 283-287 |

Related anomalies refer to anomalies which are carried forward from year to year (e.g., a trail), anomalies which change (e.g., the extension or widening of a trail or cleared area), or occupy the same geographic location in different years.

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Fig. 3a

Fig. 3b

Fig. 3c

Fig. 3e

Fig. 3g

Fig. 3h

4.4 ANOMALIES OF POTENTIAL CONCERN

Three hundred thirty anomalies were identified during the photographic interpretation of the Old Chemical Demonstration Area. All anomalies have been resolved except for two groups of unidentified objects. Seventy-three anomalies are considered to be of potential concern. To facilitate anomaly tracking, the anomalies of potential concern were mapped using the anomaly tracking number assigned in the year-by-year analysis (see Table 2 and Fig. 4). Table 2 provides information for each anomaly of potential concern, including the anomaly tracking number, coordinates for the approximate center of the anomaly (coordinates provided in Alabama State Plane East, North American Datum [NAD] 83), the year the change occurred, and the reason for the anomaly.

Table 2. The Old Chemical Demonstration Area - Anomalies of Concern

| Anomaly # | Alabama State Plane Coordinates (approximate anomaly center) | | Year of Change | Discussion |
|-----------|--|---------------|-------------------|--|
| | X-Coordinate | Y-Coordinate | | |
| 1 | 661190.53437 | 1164939.75000 | 1937 | This area was cleared before 1937. By 1940, the cleared area had begun to revegetate, except for a trail that transected the area (see anomaly of potential concern 6). The trail is evident in photographs from 1940 through 1944. Remnants of the trail are visible in the 1954 photographs. |
| 2 | 661271.84976 | 1164853.35240 | 1937 | This area was cleared prior to 1937. By 1940, revegetation of the area was underway. The area was cleared again between 1940 and 1944 (see anomaly of potential concern 16). |
| 4 | 660367.21611 | 1164456.93990 | 1937 | A trail was present in this location in 1937. The trail is evident in photographs through 1944. |
| 5 | 660773.79303 | 1163303.27788 | 1937 | This area was cleared before 1937. By 1940, the area was grass-covered. The area contained low ground cover until construction activities occurred between 1969 and 1982. |
| 6 | 661213.25223 | 1164966.06250 | 1940 | A trail was constructed in this area between 1937 and 1940. The trail transects a former cleared area (see anomaly of potential concern 1). The trail is evident in photographs from 1940 through 1944. Remnants of the trail are visible in the 1954 photographs. |
| 7 | 660779.32040 | 1164695.51820 | 1940 | A trail was present in this location in 1937. By 1940, a large area (which encompassed the trail) was cleared (see anomaly of potential concern 27). |
| 10 | 660460.17977 | 1163597.26713 | 1940 | A trail was present in this location in 1940. By 1954, the trail was no longer in use. |
| 11 | 660445.67506 | 1163512.79855 | 1940 | A trail was present in this location in 1940. By 1954, the trail was no longer in use. |
| 12 | 660585.60282 | 1163593.00104 | 1940 | A trail was present in this location in 1940. By 1954, the trail was no longer in use. |
| 15 | 661398.90505 | 1164487.43317 | 1944 | A trail was in use in this location in 1944. The 1944 photographs show potential artillery training (many small, odd-shaped ground scars) in the area west of the end of this trail. The trail was upgraded to a road in 1954. |
| 16 | 661205.78101 | 1164812.69471 | 1944 | The cleared area was cleared prior to 1937. The area was also cleared between 1940 and 1944. (see anomaly of potential concern 2). By 1954, the area was grass-covered. |
| 20 | 660784.43971 | 1164747.61644 | 1944 | This area was cleared between 1940 and 1944. By 1954, vegetation regrowth was underway. Vegetation growth continued and by 1982, the area was reforested. |
| 21 | 660842.12466 | 1164696.85368 | 1944 | This area was cleared between 1940 and 1944. By 1954, vegetation regrowth was underway. Between 1954 and 1961, the vegetation was cleared from this area for a road right of way. From 1961 through 1994, the area was maintained as a right of way. |

| Anomaly # | Alabama State Plane Coordinates (approximate anomaly center) | | Year of Change | Discussion |
|-----------|--|---------------|-------------------|---|
| | X-Coordinate | Y-Coordinate | | |
| 22 | 660842.12466 | 1164719.92766 | 1944 | This area was cleared between 1940 and 1944. In 1940, the area served as a trail. By 1954, vegetation regrowth was underway. Between 1954 and 1961, the vegetation was cleared from this area for a road right of way. From 1961 through 1994, the area was maintained as a right of way. |
| 26 | 660733.67694 | 1164701.46847 | 1944 | This area was cleared between 1940 and 1944. By 1954, vegetation regrowth was underway. Vegetation growth continued and by 1982, the area was reforested. |
| 27 | 660740.59914 | 1164653.01311 | 1944 | This area was cleared between 1940 and 1944. In 1940, a trail was evident in this location. By 1954, vegetation regrowth was underway. Vegetation growth continued and by 1982, the area was reforested. |
| 28 | 660784.43971 | 1164671.47229 | 1944 | This area was cleared between 1940 and 1944. The area was maintained as a road right of way through 1994. |
| 29 | 660539.85549 | 1164583.79116 | 1944 | This large area was cleared between 1940 and 1944. By 1954, vegetation regrowth was underway. Vegetation growth continued and in 1969, the northern portion of the area was reforested. The southern portion of the area served as a road right of way. |
| 33 | 661619.71787 | 1163884.64950 | 1944 | A trail was in use in this location in 1944. The 1944 photographs show potential artillery training (many small, odd-shaped ground scars) in the area east of the end of this trail (see anomaly of potential concern 34). The trail was upgraded to a road in 1954. |
| 34 | 661612.79567 | 1164025.40079 | 1944 | Trees were cleared in this area between 1940 and 1944. The 1944 photographs show many small, odd-shaped ground scars in this area that may be related to artillery training. By 1954, vegetation regrowth was underway and by 1961, the area had become reforested. |
| 35 | 661594.33648 | 1164355.35874 | 1944 | Trees were cleared in this area between 1940 and 1944. The 1944 photographs show a few small, odd-shaped ground scars in this area that may be related to artillery training. By 1954, the area had become reforested. |
| 36 | 661388.97804 | 1163679.29106 | 1944 | In 1944, this area contained trails and clearings. By 1954, vegetation regrowth was underway. |
| 37 | 661402.66948 | 1163552.89837 | 1944 | In 1944, this area contained trails and clearings. By 1954, vegetation regrowth was underway. Between 1969 and 1982, this area was cleared during construction activities. |
| 38 | 661262.07114 | 1163469.31782 | 1944 | In 1944, this area contained trails and clearings. In 1954, the eastern half of this area had become reforested and a trail transected the western half of the area (see anomaly of potential concern 84). |
| 39 | 661197.46399 | 1163291.64815 | 1944 | In 1944, this area contained trails and clearings. The vegetation in this area remained grass or low ground cover through 1969. Construction activities began in this area between 1969 and 1982. |

| Anomaly # | Alabama State Plane Coordinates (approximate anomaly center) | | Year of Change | Discussion |
|-----------|--|---------------|-------------------|--|
| | X-Coordinate | Y-Coordinate | | |
| 46 | 660371.41542 | 1162694.03201 | 1944 | This area was cleared prior to the acquisition of the 1944 photographs. The area remained clear through 1969. By 1982, vegetation covered the area. |
| 47 | 660320.65266 | 1162571.73990 | 1944 | All of the trees were cleared from this area between 1940 and 1944. Vegetation regrowth was underway in 1954. |
| 48 | 660579.08126 | 1162604.04348 | 1944 | A new trail was present in this location in 1944. The trail was widened prior to 1954. By 1961, this trail was no longer in use. |
| 49 | 661112.09025 | 1162486.36617 | 1944 | A new trail was present in this location in 1944 (extension of trail identified as anomaly of potential concern 48). This trail led to two cleared areas that were located outside the study area. The eastern leg of the trail remained in use in 1954, while the rest of trail was no longer used. By 1961, the western portion of the trail had begun to revegetate. |
| 50 | 661273.60813 | 1162368.68886 | 1944 | Most of the trees were cleared in this area between 1940 and 1944. By 1954, vegetation regrowth was underway. The area had become reforested by 1969. |
| 51 | 661257.45634 | 1162234.85976 | 1944 | Most of the trees were cleared in this area between 1940 and 1944. By 1954, vegetation regrowth was underway. The area had become reforested by 1969. |
| 52 | 661008.25733 | 1162370.99626 | 1944 | Most of the trees were cleared in this area between 1940 and 1944. By 1954, vegetation regrowth was underway. The area had become reforested by 1969. |
| 53 | 660860.58385 | 1162553.28072 | 1944 | Trees were cleared in this area between 1940 and 1944. By 1954, this area had been excavated. The excavation area grew in size through 1969. The area remained active through 1994. |
| 54 | 660715.21776 | 1162251.01155 | 1944 | Most of the trees were cleared in this area between 1940 and 1944. In 1954, most of this area remained clear. By 1961, vegetation regrowth was underway. In 1969, a new road transected the area but the remaining acreage had become reforested. |
| 55 | 661218.68201 | 1163340.41712 | 1944 | In 1944, this small area contained trails and clearings. The vegetation in this area remained grass or low ground cover through 1994. |
| 56 | 660911.01274 | 1163847.07452 | 1944 | This area endured heavy disturbance between 1940 and 1944. The area is filled with trails and areas of scarred ground. By 1954, the activity that caused the disturbance in the area appears to have been halted, although much of the ground remained scarred. In 1961, the area remained clear and still contained scarred ground. By 1969, grass-covered most of the area and by 1982, vegetation regrowth was underway. By 1994, the area had become reforested. |
| 63 | 661435.38568 | 1164721.68603 | 1954 | The vegetation (scrub/shrub) was cleared in this area between 1944 and 1954. Vegetation regrowth was underway by 1961. |
| 84 | 661164.87106 | 1163698.55152 | 1954 | A trail was present in this location in 1954. In 1944, this area was heavily disturbed. By 1961, the trail was no longer in use. |

| Anomaly # | Alabama State Plane Coordinates (approximate anomaly center) | | Year of Change | Discussion |
|-----------|--|---------------|-------------------|--|
| | X-Coordinate | Y-Coordinate | | |
| 85 | 661363.06989 | 1163197.69772 | 1954 | A trail was present in this location in 1954. By 1961, the trail was no longer in use. |
| 86 | 661233.16902 | 1163196.93239 | 1954 | All of the trees were cleared in this area prior to 1954. The area remained clear through 1969. In 1982, this area was under construction. |
| 96 | 660275.65469 | 1162437.04275 | 1954 | Many of the trees were cleared from this area between 1944 and 1954. Vegetation regrowth began between 1954 and 1961. By 1994, the area had become reforested. |
| 97 | 661764.82428 | 1163122.70357 | 1954 | Groups of unidentified objects were present at this location in 1954. In 1961, the objects were no longer present. |
| 100 | 660838.11083 | 1162747.73281 | 1954 | All of the trees were cleared in this area before 1954. By 1961, this area was part of the large excavation area (same location as anomaly of potential concern 159). |
| 102 | 660977.38568 | 1162648.63339 | 1954 | A large excavation activity was underway at this location in 1954. The area remained active through 1994. |
| 103 | 660902.39153 | 1162536.14217 | 1954 | A large excavation activity was underway at this location in 1954. The area remained active through 1994. |
| 113 | 660868.59724 | 1162437.87949 | 1954 | A large excavation activity was underway at this location in 1954. This portion of the excavation area was reduced in size over time. By 1982, this area was grass-covered. |
| 114 | 660876.01064 | 1162474.94647 | 1954 | A large excavation activity was underway at this location in 1954. This portion of the excavation area was reduced in size over time. By 1982, this area was grass-covered. |
| 119 | 661509.85589 | 1162206.82869 | 1954 | Trees were cleared in this area between 1944 and 1954. This area is related to a disturbed area that is located outside of the study area. Vegetation regrowth was underway in 1969 and by 1994, the area had become reforested. |
| 120 | 661982.61822 | 1162720.72939 | 1954 | Groups of unidentified objects were present at this location in 1954. In 1961, the objects were no longer present. |
| 128 | 661319.08826 | 1163946.89437 | 1954 | Trees were cleared in this area prior to 1954. The area remained clear in 1961. By 1969, vegetation regrowth was underway and by 1982, the area had become reforested. |
| 132 | 660843.32659 | 1164342.31192 | 1961 | A new trail was present in this location in 1961. The trail remained in use through 1969. The trail is not evident in the 1982 photographs. |
| 133 | 660980.34598 | 1164053.85005 | 1961 | A new trail was present in this location in 1961. By 1969, the trail had been redirected away from this location. Anomaly of potential concern 194 contains the redirected trail. |
| 134 | 661059.67299 | 1163760.58047 | 1961 | A new trail was present in this location in 1961. The trail remained in use through 1969. The trail is not evident in the 1982 photographs. |
| 135 | 661059.67299 | 1164272.60030 | 1961 | Scrub was cleared from this area between 1954 and 1961. By 1969, the area had begun to revegetate and by 1982, the area had become reforested. |
| 136 | 660989.96137 | 1163998.56152 | 1961 | Scrub was cleared from this area between 1954 and 1961. By 1969, the area had begun to revegetate and by 1982, the area had become reforested. |

| Anomaly # | Alabama State Plane Coordinates (approximate anomaly center) | | Year of Change | Discussion |
|-----------|--|---------------|-------------------|---|
| | X-Coordinate | Y-Coordinate | 7 | |
| 137 | 661182.26929 | 1163791.83051 | 1961 | Scrub was cleared from this area between 1954 and 1961. By 1969, the area had begun to revegetate and by 1982, the area had become reforested. |
| 145 | 660574.09550 | 1163916.83065 | 1961 | Scrub was cleared in this area between 1954 and 1961. The area remained clear (grass-covered) in 1969. By 1982, vegetation regrowth was underway and by 1994, the area had become reforested. |
| 149 | 660807.26885 | 1163484.13784 | 1961 | A new trail was evident in this location in 1961. By 1969, the trail was no longer evident. |
| 150 | 660648.61482 | 1163549.04176 | 1961 | A new trail was evident in this location in 1961. By 1969, the trail was no longer evident. |
| 159 | 660848.13428 | 1162748.56006 | 1961 | This area was excavated between 1954 and 1961. Trees had been cleared from the area previously. The excavation activities at this location were ongoing in 1969, but had ceased by 1982. |
| 160 | 661050.05760 | 1162753.36776 | 1961 | This area was excavated between 1954 and 1961. The excavation activities at this location were ongoing through 1982 but had ceased by 1994. |
| 161 | 661134.19231 | 1162688.46384 | 1961 | This area was excavated between 1954 and 1961. The excavation activities at this location were ongoing through 1982 but had ceased by 1994. |
| 162 | 661182.26929 | 1162676.44459 | 1961 | This area was excavated between 1954 and 1961. The excavation activities at this location were ongoing through 1982 but had ceased by 1994. |
| 172 | 660788.03806 | 1162570.67524 | 1961 | This area was excavated between 1954 and 1961. By 1969, the excavation activities at this location had ceased. |
| 174 | 660800.95217 | 1162533.14361 | 1961 | This area was excavated between 1954 and 1961. By 1969, the excavation activities at this location had ceased. |
| 175 | 660809.65515 | 1162519.00126 | 1961 | This area was excavated between 1954 and 1961. By 1969, the excavation activities at this location had ceased. |
| 194 | 660947.41176 | 1164033.66588 | 1969 | A trail was present in this location in 1969. The trail was in use through 1982; by 1994, the trail was no longer evident. |
| 201 | 661129.08042 | 1163533.48723 | 1969 | A trail was present in this location in 1969. By 1982, the trail was no longer evident. |
| 207 | 660956.84909 | 1162790.29726 | 1969 | This area was excavated between 1961 and 1969. The excavation activities were ongoing in 1982 but had ceased in this location by 1994. |
| 208 | 661004.03576 | 1162802.09392 | 1969 | This area was excavated between 1961 and 1969. The excavation activities were ongoing in 1982 but had ceased in this location by 1994. |
| 209 | 661027.62909 | 1162802.09392 | 1969 | This area was excavated between 1961 and 1969. The excavation activities were ongoing in 1982 but had ceased in this location by 1994. |

| Anomaly # | Alabama State Plane Coordinates (approximate anomaly center) | | Year of Change | Discussion |
|-----------|--|---------------|-------------------|--|
| | X-Coordinate | Y-Coordinate | | |
| 210 | 661173.90775 | 1162721.87659 | 1969 | This area was excavated between 1961 and 1969. The excavation activities were ongoing in 1982 but had ceased in this location by 1994. |
| 211 | 661152.67375 | 1162570.87927 | 1969 | This area was excavated between 1961 and 1969. The excavation activities were ongoing in 1982 but had ceased in this location by 1994. |
| 305 | 660707.72428 | 1164711.05048 | 1994 | This area was cleared between 1982 and 1994. |

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